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CHAPTER1: Orientation to Medications

Learning Outcomes

- 1-1 Define terms to understanding administration of medications.
- 1-2 List the major sources and uses of drugs.
- 1-3 Define drug standards, indicating how they are determined and why they are necessary.
- 1-4 List names by which drugs are known.
- 1-5 List drug references, explain how to use at least one, and make a drug card.
- 1-6 List the major drug laws and their main features.
- 1-7 List the federal agencies that enforce the drug laws and the importance of enforcing them.

Chapter Outline

Key Terms
Introduction to Pharmacology
Pharmacology
Drug Sources
Drug Uses
Drug Standards
Drug Names
Drug References
Preparing Your Own Drug Cards
Drug Legislation
You and the Law
Chapter Summary

Teaching Strategies

Chapter 1 Review

- Ask students to identify the key terms they are already familiar with. Discuss the definitions of all the terms and be certain that students are clear about the meanings. Point out any similarities that may be confusing to them and tell them to memorize those words to avoid confusion later on. Ask volunteers to share their methods of learning medical key terms.
- Ask students to list the major sources of drugs and give examples of each.
- If possible, obtain a film from the library or a pharmaceutical company explaining the process of drug trials. Show the film to the class.
- Take a field trip to a pharmaceutical company in your area to observe the step-by-step process of manufacturing drugs. Ask students to summarize why, as health care workers, they should understand the drug manufacturing process. Discuss how the company followed drug legislation.
- Invite a pharmacist into class (or visit a pharmacy) to discuss the process of testing for generic drugs. Ask students why it is important they understand this process.
- Ask a pharmaceutical representative to speak to the class about how he or she can make a difference in patient care.
- Visit a local pharmacy or invite a pharmacist into class to discuss what pharmacists teach patients when they dispense a drug. Ask for print material that is sometimes given to patients. Discuss in class how this material could be beneficial or harmful to the patient.
- When students begin work in a health facility, ask them to make a list of all the drug references that are available to them in their work environment. Are the materials up-todate? Why are up-to-date references important to the patient and the health care worker?
- Ask students to complete the Chapter 1 Review. Discuss answers, clearing up any misconceptions students may have. Review any material students had difficulty with.
- Administer and grade the Chapter 1 Test in this Instructor's Manual.
- Develop and administer a performance test for preparing a drug card.

Critical Thinking Activity

You are admitting a patient who frequently changes physicians. The patient has an unlabeled bottle of pills that she has been taking. She says that a doctor she no longer sees prescribed them for her. She does not know why she was taking the drug or the name of the drug. What should you do to determine the drug's name, action, and therapeutic purpose?

Answers to Chapter 1 Review

- Chemical substance used in the diagnosis, treatment, cure, or prevention of a particular disease
- 2. The study of drugs: sources, chemical makeup, uses, how to prepare them, and so on
- 3. The structure of the body and its parts
- 4. The science that deals with the functions of cells, tissues, and organs of living organisms
- 5. Rules concerning the strength, quality, and purity of drugs
- 6. Physicians' Desk Reference®, a drug reference
- 7. United States Pharmacopeia/National Formulary, a drug reference containing the standards for official

drugs

- 8. Enforcement agency that enforces the Patriot Improvement and Reauthorization Act of 2005.
- 9. The absorption, distribution, metabolism, and excretion of drugs
- 10. Drug sources include:
 - Plants—digitalis, opium, belladonna, vitamin C, gums, oils
 - Animals—insulin, heparin
 - Minerals—iron, iodine, salt, calcium
 - Synthetic drugs—Bactrim, Septra, biotechnology, Humulin® insulin, vaccines
- 11. Drug uses:
 - Prevent diseases—vaccines
 - Maintain health—insulin, vitamins
 - Diagnose disease—radiopaque dye, barium
 - Treat disease—aspirin, antihistamines
 - Cure disease—antibiotics
 - Prevent pregnancy—contraceptives
 - Palliative—chemotherapy
- 12. Drug laws and agencies:
 - Pure Food and Drug Act of 1906, no agency
 - Food, Drug, and Cosmetic Act of 1938, enforced by the FDA
 - Controlled Substances Act of 1990, enforced by the DEA
- 13. OTC drugs can be bought and sold without a prescription. Prescription drugs need a doctor's written

or verbal order to be bought and sold. Controlled substances have restrictions on who can prescribe,

and how, and how often they can be prescribed.

- 14. c 15. b 16. a 17. d 18. f 19. e 20. e 21. b 22. a 23. d 24. c 25. b 26. b 27. c.
- 28. d 29.a
- 30. Metamucil is a bulk-forming laxative of plant origin.

Digitalis is a cardiac glycoside used in the treatment of congestive heart failure.

It is also of plant origin.

Insulin is used in the treatment diabetes mellitus. It is of animal source.

Bactrim is a synthetic drug to treat an infection.

Iron is a mineral given as a supplement generally for a deficiency in the diet.

31. Nitroglycerin is the generic name and Nitrostat is the brand name.

A healthcare provider may order a drug by either a generic or brand name.

A generic name allows the pharmacist to dispense from nonbrand name drugs.

A drug only has one generic drug name but may have several brand names.

For example, nitroglycerin has the other brand names of Nitro-bid or Nitrong.

Although memorizing all the generic and brand names for drugs is not possible, be familiar with both the generic and brand names.

32. Janie should study the federal and state laws controlling medication administration. She should also

study the nursing home's own regulations, and she should find out who is in charge so that she knows

to whom questions should be addressed.

- 33. Answers will vary
- 34. White
- 35. About 17 (this will vary from year to year)
- 36. Acetaminophen
- 37. Answers will vary